

WHAT IS CLAIMED IS:

1 1. A DSL transceiver comprising:  
2 a receive section that receives a DSL signal from a DSL channel when the DSL  
3 transceiver is connected;  
4 a transmit section that transmits a DSL signal from a DSL channel when the DSL  
5 transceiver is connected;  
6 a DSL traffic detector that detects whether or not non-idle data is being transmitted  
7 over the DSL channel; and  
8 a selective processing subsection of the receive section that omits at least some of the  
9 processing required for reception of data from the DSL channel when the DSL  
10 traffic detector detects that non-idle data is not being transmitted over the DSL  
11 channel.

1 2. The DSL transceiver of claim 1, wherein the DSL transceiver is a host-  
2 signal processing based ADSL transceiver.

1 3. The DSL transceiver of claim 1, further comprising state logic to place  
2 the selective processing subsection into a normal state, a sleep state or a warmup state,  
3 wherein the warmup state is entered after exiting the sleep state before entering the  
4 normal state.